

Harsh Kumar

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EDUCATION

Graphic Era Deemed to be University <i>Bachelor of Technology in Computer Science and Engineering (GPA: 8.73 / 10.00)</i>	Dehradun, Uttarakhand Sep 2021- Present
Kendriya Vidyalaya <i>C.B.S.E (12th) (89.4 %)</i>	Shahjahanpur, Uttarpradesh April 2020 – March 2021
Kendriya Vidyalaya <i>C.B.S.E (10th) (87.4 %)</i>	Shahjahanpur, Uttarpradesh April 2018 – March 2019

PROJECTS

Multiplayer Chess Game <i>Node.js, Express.js, Socket.IO, JS, Tailwind CSS</i> <ul style="list-style-type: none">Developed a real-time multiplayer chess game with 100% seamless gameplay using Node.js, Express.js, and Socket.IO to enable efficient server-client communication.Designed a responsive interface with Tailwind CSS and JavaScript for a seamless user experience.Optimized game performance for real-time synchronization and low-latency gameplay. Live Link: Play Chess Online GitHub: Code	June 2024 - July 2024
Virtual Mouse <i>OpenCV, MediaPipe, PyAutoGUI, Python</i> <ul style="list-style-type: none">Implemented a sophisticated hand gesture-based cursor control system using OpenCV, MediaPipe, PyAutoGUI, and pynput, achieving precise movement and control.Enabled precise cursor control with single-click and double-click through gesture recognition.Integrated a screenshot capture feature, expanding the system's capabilities. GitHub: Code	May 2024 - June 2024
Algorithm Visualizer <i>React.js, JavaScript</i> <ul style="list-style-type: none">Created an interactive algorithm visualizer in React.js for key graph algorithms: Dijkstra's, BFS, DFS, Bellman-Ford, and Kruskal's.Integrated dynamic visualizations to represent algorithm execution, enhancing understanding of graph traversal.Improved user experience with smooth animations and intuitive controls. Live Link: Visualizer GitHub: Code	July 2024 - Aug 2024
Speech Translator <i>React.js, JS, APIs for speech-to-text and translation</i> <ul style="list-style-type: none">implemented a React-based web application for high-accuracy speech-to-text conversion with integrated multi-language translation using modern APIs.Integrated multi-language translation features to convert text into various languages.Optimized real-time translation for seamless user experience and global accessibility. Live Link: Speech Translator GitHub: Code	Dec 2023 - Jan 2024

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, PHP
Frameworks: React, Node.js
Developer Tools: Git, Github, Google Cloud Platform, VS Code, Visual Studio, Eclipse
Libraries: pandas, NumPy, Opencv, mediapipe
Soft skills and Areas of Interest: Problem Solving, Interpersonal Skills.
Database: MySQL.

SCHOLASTIC ACHIEVEMENTS

Solved: 800+ problems combinely on Leetcode and GFG.
Leetcode: Link
GFG: Link

RELEVANT COURSEWORK

Computer Science: Data structures and Algorithms, Object Oriented Programming, Database Management System, Operating System, Computer Networks.